

## Recovery Plan Action Status

**Plan Name:** Thirteen Plant Taxa from the Northern Channel Islands Recovery Plan

**Plan Status:** Final

**Plan Date:** 26-Sep-00

**Lead Agency:** USFWS

**Lead Office:** Ventura Fish And Wildlife Office  
 (805) 644-1766 )

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Santa Rosa Island manzanita ( <i>Arctostaphylos confertiflora</i> ), Santa Cruz Island bush-mallow ( <i>Malacothamnus fasciculatus</i> var. <i>nesioticus</i> ), Hoffmann's rock-cress ( <i>Arabis hoffmannii</i> ), Island rush-rose ( <i>Helianthemum greenei</i> ), Soft-leaved paintbrush ( <i>Castilleja mollis</i> ), Santa Cruz Island malacothrix ( <i>Malacothrix indecora</i> ), Island malacothrix ( <i>Malacothrix squalida</i> ), Island Barberry ( <i>Berberis pinnata</i> ssp. <i>insularis</i> ), Santa Cruz Island dudleya ( <i>Dudleya nesiotica</i> ), Hoffmann's slender-flowered gilia ( <i>Gilia tenuiflora</i> ssp. <i>hoffmannii</i> ), Island phacelia ( <i>Phacelia insularis</i> ssp. <i>insularis</i> ), Island bedstraw ( <i>Galium buxifolium</i> ), Santa Cruz Island fringepod ( <i>Thysanocarpus conchuliferus</i> )	1	1.3.1	Develop and implement a plan to achieve the goals and standards established in the Conservation Strategy.	Not Started			U.S. Geological Survey, Biological Resources Division, National Park Service, U.S. Fish and Wildlife Service, The Nature Conservancy	Work type not yet selected	Labor type not yet selected	Management goals have been developed for specific species independently rather than within the framework of the conservation strategy (CR 1/2006)

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Santa Rosa Island manzanita ( <i>Arctostaphylos confertiflora</i> ), Santa Cruz Island bush-mallow ( <i>Malacothamnus fasciculatus</i> var. <i>nesioticus</i> ), Hoffmann's rock-cress ( <i>Arabis hoffmannii</i> ), Island rush-rose ( <i>Helianthemum greenei</i> ), Soft-leaved paintbrush ( <i>Castilleja mollis</i> ), Santa Cruz Island malacothrix ( <i>Malacothrix indecora</i> ), Island malacothrix ( <i>Malacothrix squalida</i> ), Island Barberry ( <i>Berberis pinnata</i> ssp. <i>insularis</i> ), Santa Cruz Island dudleya ( <i>Dudleya nesiotica</i> ), Hoffmann's slender-flowered gilia ( <i>Gilia tenuiflora</i> ssp. <i>hoffmannii</i> ), Island phacelia ( <i>Phacelia insularis</i> ssp. <i>insularis</i> ), Island bedstraw ( <i>Galium buxifolium</i> ), Santa Cruz Island fringepod ( <i>Thysanocarpus conchuliferus</i> )	2	4.2	Monitor listed plants.	Ongoing Current	FY 2005		Santa Catalina Island Conservancy, U.S. Geological Survey, Biological Resources Division, National Park Service, U.S. Fish and Wildlife Service, The Nature Conservancy	Work type not yet selected	Labor type not yet selected	1. Census-level monitoring for all listed plant of Santa Rosa and San Miguel Islands done in 1996-1999. Censuses conducted on Santa Cruz Island for all listed plants 2002-2005. Annual demographic monitoring done for <i>Gilia tenuiflora</i> spp. <i>hoffmannii</i> , <i>Phacelia insularis</i> var. <i>insularis</i> , and <i>Castilleja mollis</i> on Santa Rosa Island (1995-2005). Annual demographic monitoring for <i>Arabis hoffmannii</i> , <i>Thysanocarpus conchuliferus</i> , <i>Malacothamnus fasciculatus</i> var. <i>nesioticus</i> , <i>Galium buxifolium</i> on Santa Cruz Island (2003-2005). Adaptive management monitoring for <i>Arctostaphylos confertiflora</i> (1998-2005) and <i>Castilleja mollis</i> (2000-2005) on Santa Rosa Island. 2. Surveys/monitoring conducted by NPS/USGS in 2008 for most but not all species in plan (DS 07/2010). 3. FWS funding being allocated for <i>Helianthemum greenei</i> surveys during Fall 2010 on Santa Cruz, Santa Rosa, and San Miguel islands, and demographic research on Santa Catalina Island (DS 07/2010). Surveys for Island rush-rose ( <i>Helianthemum</i>

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
										greenei) on Santa Catalina Island ongoing. Two new populations reported July 2011 (DS 08/2011).
Santa Rosa Island manzanita ( <i>Arctostaphylos confertiflora</i> ), Santa Cruz Island bush-mallow ( <i>Malacothamnus fasciculatus</i> var. <i>nesioticus</i> ), Hoffmann's rock-cress ( <i>Arabis hoffmannii</i> ), Island rush-rose ( <i>Helianthemum greenei</i> ), Soft-leaved paintbrush ( <i>Castilleja mollis</i> ), Santa Cruz Island malacothrix ( <i>Malacothrix indecora</i> ), Island malacothrix ( <i>Malacothrix squalida</i> ), Island Barberry ( <i>Berberis pinnata</i> ssp. <i>insularis</i> ), Santa Cruz Island dudleya ( <i>Dudleya nesiotica</i> ), Hoffmann's slender-flowered gilia ( <i>Gilia tenuiflora</i> ssp. <i>hoffmannii</i> ), Island phacelia ( <i>Phacelia insularis</i> ssp. <i>insularis</i> ), Island bedstraw ( <i>Galium buxifolium</i> ), Santa Cruz Island fringepod ( <i>Thysanocarpus conchuliferus</i> )	2	5.1	Collect, store, and develop seed banking techniques for the species in this recovery plan.	Not Started			Rancho Santa Ana Botanic Garden, Santa Barbara Botanic Garden, National Park Service, The Nature Conservancy	Work type not yet selected	Labor type not yet selected	1. Seed collected and stored at SBBG for <i>Arabis hoffmannii</i> , <i>Thysanocarpus conchuliferus</i> , and <i>Galium buxifolium</i> from Santa Cruz Island by BRD in 2004 and 2005. Collections of <i>Dudleya nesioticus</i> and <i>Arabis hoffmannii</i> from Santa Cruz Island made by SBBG in 1999 and 2000 (?). 2. Funding from FWS being allocated to collect seed from island rush-rose on Santa Catalina Island (DS 07/2010).

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Santa Cruz Island bush-mallow ( <i>Malacothamnus fasciculatus</i> var. <i>nesioticus</i> ), Island Barberry ( <i>Berberis pinnata</i> ssp. <i>insularis</i> )	2	5.2	Maintain living collections.	Not Started			Rancho Santa Ana Botanic Garden, Santa Barbara Botanic Garden	Work type not yet selected	Labor type not yet selected	1. SBBG maintains living collections of <i>Berberis pinnata</i> , <i>Malacothamnus fasciculatus</i> var. <i>nesioticus</i> , <i>Arctostaphylos confertiflora</i> , <i>Dudleya nesiotica</i> , and <i>Arabis hoffmannii</i> . 2. Tissue culture research begun in 2008 at Cincinnati Zoo and Botanic Garden as well as SBBG (DS 07/2010).
Santa Cruz Island bush-mallow ( <i>Malacothamnus fasciculatus</i> var. <i>nesioticus</i> ), Hoffmann's rock-cress ( <i>Arabis hoffmannii</i> ), Santa Cruz Island malacothrix ( <i>Malacothrix indecora</i> ), Island malacothrix ( <i>Malacothrix squarida</i> ), Island Barberry ( <i>Berberis pinnata</i> ssp. <i>insularis</i> ), Hoffmann's slender-flowered gilia ( <i>Gilia tenuiflora</i> ssp. <i>hoffmannii</i> ), Island phacelia ( <i>Phacelia insularis</i> ssp. <i>insularis</i> ), Island bedstraw ( <i>Galium buxifolium</i> ), Santa Cruz Island fringedpod ( <i>Thysanocarpus conchuliferus</i> )	1	6.1	Collect seed and/or cuttings for reintroduction efforts.	Not Started			Rancho Santa Ana Botanic Garden, Santa Barbara Botanic Garden, Santa Catalina Island Conservancy, U.S. Geological Survey, Biological Resources Division, National Park Service, The Nature Conservancy	Work type not yet selected	Labor type not yet selected	Seed collection efforts have been carried out for <i>Arabis hoffmannii</i> , <i>Thysanocarpus conchuliferus</i> , <i>Galium buxifolium</i> , <i>Phacelia insularis</i> ssp. <i>insularis</i> , <i>Gilia tenuiflora</i> ssp. <i>hoffmannii</i> , <i>Malacothrix indecora</i> , <i>Arctostaphylos confertiflora</i> . Cuttings have been made from <i>Malacothamnus fasciculatus</i> var. <i>nesioticus</i> .

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Santa Cruz Island bush-mallow ( <i>Malacothamnus fasciculatus</i> var. <i>nesioticus</i> ), Hoffmann's rock-cress ( <i>Arabis hoffmannii</i> ), Island rush-rose ( <i>Helianthemum greenei</i> ), Santa Cruz Island malacothrix ( <i>Malacothrix indecora</i> ), Island malacothrix ( <i>Malacothrix squalida</i> ), Island Barberry ( <i>Berberis pinnata</i> ssp. <i>insularis</i> ), Hoffmann's slender-flowered gilia ( <i>Gilia tenuiflora</i> ssp. <i>hoffmannii</i> ), Island phacelia ( <i>Phacelia insularis</i> ssp. <i>insularis</i> ), Island bedstraw ( <i>Galium buxifolium</i> ), Santa Cruz Island fringepod ( <i>Thysanocarpus conchuliferus</i> )	1	6.2	Initiate enhancement, repatriation, or introductions where appropriate.	Planned			Rancho Santa Ana Botanic Garden, Santa Barbara Botanic Garden, Santa Catalina Island Conservancy, U.S. Geological Survey, Biological Resources Division, National Park Service, The Nature Conservancy	Work type not yet selected	Labor type not yet selected	1. Malacothamnus fasciculatus var. nesioticus cuttings were planted out on Santa Cruz Island in 12/2005. <i>Arabis hoffmannii</i> juvenile plants were outplanted in 4/2004 and seed were outplanted in 12/2005 on Santa Cruz Island. <i>Castilleja mollis</i> juvenile plants were outplanted in 2003 on Santa Rosa Island (CR 1/2006). Funding being allocated for reintroduction of Island rush-rose ( <i>Helianthemum greenei</i> ) to San Miguel Island (DS 07/2010). Reintroduction of Island rush-rose ( <i>Helianthemum greenei</i> ) to San Miguel Island has not occurred yet(DS 08/2011).

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Santa Rosa Island manzanita ( <i>Arctostaphylos confertiflora</i> ), Santa Cruz Island bush-mallow ( <i>Malacothamnus fasciculatus</i> var. <i>nesioticus</i> ), Hoffmann's rock-cress ( <i>Arabis hoffmannii</i> ), Island rush-rose ( <i>Helianthemum greenei</i> ), Soft-leaved paintbrush ( <i>Castilleja mollis</i> ), Santa Cruz Island malacothrix ( <i>Malacothrix indecora</i> ), Island malacothrix ( <i>Malacothrix squalida</i> ), Island Barberry ( <i>Berberis pinnata</i> ssp. <i>insularis</i> ), Santa Cruz Island dudleya ( <i>Dudleya nesiotica</i> ), Hoffmann's slender-flowered gilia ( <i>Gilia tenuiflora</i> ssp. <i>hoffmannii</i> ), Island phacelia ( <i>Phacelia insularis</i> ssp. <i>insularis</i> ), Island bedstraw ( <i>Galium buxifolium</i> ), Santa Cruz Island fringepod ( <i>Thysanocarpus conchuliferus</i> )	3	7.1	Establish coordinated resource management group	Not Started			Santa Catalina Island Conservancy, U.S. Department of Defense, National Park Service, The Nature Conservancy	Work type not yet selected	Labor type not yet selected	NPS, BRD, SBBG, and TNC coordinate management and research for listed plants of Northern Channel Islands.

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Santa Rosa Island manzanita ( <i>Arctostaphylos confertiflora</i> ), Santa Cruz Island bush-mallow ( <i>Malacothamnus fasciculatus</i> var. <i>nesioticus</i> ), Hoffmann's rock-cress ( <i>Arabis hoffmannii</i> ), Island rush-rose ( <i>Helianthemum greenei</i> ), Soft-leaved paintbrush ( <i>Castilleja mollis</i> ), Santa Cruz Island malacothrix ( <i>Malacothrix indecora</i> ), Island malacothrix ( <i>Malacothrix squalida</i> ), Island Barberry ( <i>Berberis pinnata</i> ssp. <i>insularis</i> ), Santa Cruz Island dudleya ( <i>Dudleya nesiotica</i> ), Hoffmann's slender-flowered gilia ( <i>Gilia tenuiflora</i> ssp. <i>hoffmannii</i> ), Island phacelia ( <i>Phacelia insularis</i> ssp. <i>insularis</i> ), Island bedstraw ( <i>Galium buxifolium</i> ), Santa Cruz Island fringepod ( <i>Thysanocarpus conchuliferus</i> )	3	7.2	Develop and implement a public education program.	Not Started			Santa Catalina Island Conservancy, National Park Service, The Nature Conservancy	Work type not yet selected	Labor type not yet selected	Educational information provided by NPS, TNC, BRD, and concessionaires through lectures, trail maps, brochures, website information, field classes, signage, interpretive programs